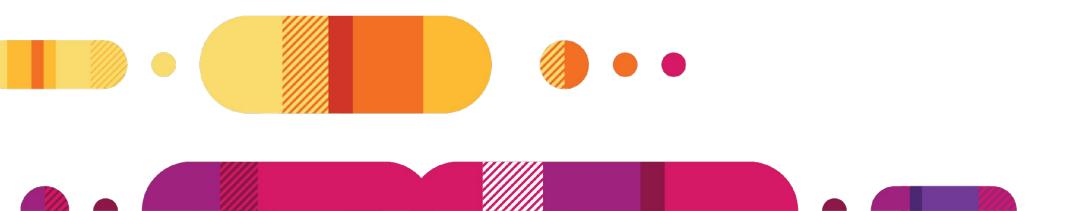
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# Charging at Scale

#### Jason Lester - Director, Workplace Experience March 23, 2021



# Project Background

- Historical EV Situation
  - Free charging to employees
  - # of chargers limited by infrastructure costs to add more.
  - 50+ employees with EVs developed an app to manage charger availability and a dedicated Slack channel to communicate with one another, moving cars in and out of spots hourly.
- 2019 New Building Lease
  - Parking Garage built with (29) Level 2 Chargers (Clipper Creek)
  - Growing number of EV Employees concerned one suggests PowerFlex...



### PowerFlex Assessment

- With load management, the existing 600A, 277Y/480VAC panel could support over (100) Level 2 chargers and (1) DC charger.
  - Minimal Cost with Turnkey Install
    - BAQMD grants offset 100% of infrastructure costs
    - LCFS credits offset monthly service fees
  - Added Demand Control
    - Enables energy management = lower cost charging
    - Enables guaranteed charge rules ~ 50 miles/day minimum
    - Provides app with notifications, and comprehensive site dashboard
  - Reduce "Re-parking" lost productivity

# **Project Scope**

- In Existing Panels
  - Replace (29) existing 40A chargers w/40A universal chargers
  - (21) new 40A chargers and (2) LMCs
  - (1) DC Fast charger (100A/3P)
- New Equipment
  - (1) 150kVA Transformer
  - (3) Panels (400A, (2) 225A)
  - (52) additional chargers and (1) LMC
  - (1) CT



## **Project Results**

For minimum costs, we increased our charging capacity by 3.5x, added DCFC, enabled energy management, and received recognition from SVCE for an innovative solution.



